Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in

the application:

Listing of Claims:

1. A process for manufacturing medical (Currently amended)

components made of fiber-reinforced thermoplastic materials, where a blank formed

of fibers and thermoplastic materials is first pre-finished, and said blank is brought

into a final form of a component in a negative mold, under pressure, in a hot-

forming process, comprising the steps of:

heating the entire blank to a forming temperature with plastic flow

consistency in a heating stage located outside the negative mold.

pressing said heated blank into the negative mold using a pressing head that

travels at a speed of 2mm/sec to 80 mm/sec, generally maintaining orientation of

the fibers in the heated blank, and

shaping the blank in the negative mold by virtue of the entire blank flowing

from the heating stage into and filling up the negative mold.

2. A process for manufacturing medical (Currently amended)

components which are under stress, made of fiber-reinforced thermoplastic

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materials, where a blank formed with a fiber proportion of more than 50 volume-% and with at least predominant use of comprises endless fibers [[and]], said fiberreinforced thermoplastic material is first pre-finished, and said blank is brought into a final form of a component in a negative mold, under pressure, in a hot-

forming process, comprising the steps of:

heating the entire blank to a forming temperature with plastic flow consistency in a heating stage located outside the negative mold,

pressing said heated blank into the negative mold using a pressing head that travels at a speed of 2mm/sec to 80 mm/sec, generally maintaining orientation of the fibers arranged in the heated blank, and

shaping the blank in the negative mold by virtue of the entire blank flowing from the heating stage into and filling up the negative mold.

- 3. (Previously presented) The process according to claim 1, wherein the blank is further pre-finished as rod material and is cut to a plurality of lengths required for a final component before the hot-forming process.
- 4. (Previously presented) The process according to claim 1, further comprising fibers that are endless and have a length that corresponds at least to a length of the blank for a final component.

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5. (Previously presented) The process according to claim 1, wherein said

blank is composed of layers with different fiber orientation in a lengthwise

direction

6. (Previously presented) The process according to claim 1, wherein the

blank is formed from more than one polymer laminate.

7. (Previously presented) The process according to claim 1, wherein the

shaping of the blank is accomplished by a push-pull extrusion process.

8. (Currently amended) The process according to claim 1, further

comprising the steps of:

heating the blank to a forming temperature of 350-450 °C, and then after

pressing said blank into the negative mold and shaping thereby,

cooling said shaped blank below [[the]] a glass transition temperature of the

thermoplastic material in a post-pressure phase.

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9. (Previously presented) The process according to claim 1, further

comprising the step of using carbon or graphite as a release agent for releasing the

shaped blank from the negative mold.

10. (Previously presented) The process according to claim 1, wherein the

blank is made of PAEK (polyaryl ether ketones) reinforced with carbon fibers.

11. (Previously presented) The process according to claim 1, wherein said

blank is formed from endless fibers and at least part of the endless fibers run

parallel to an axis of the blank.

12. (Previously presented) The process according to claim 1, wherein at

least a portion of the fibers has an orientation from 0 to 90° in the blank.

13. (Previously presented) The process according to claim 1, wherein the

fibers have a length of more than 3 mm.

14. (Previously presented) The process according to claim 1, wherein the

fibers are surrounded by said thermoplastic material, covering a surface of the

blank during said shaping of said blank.

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(canceled)

15.

16. (Previously presented) The process according to claim l, wherein the

components receive an additional surface seal during the hot-forming process.

17 - 26. (canceled)

27. (Previously presented) The process according to claim 7, wherein

the reciprocating process is performed more than one time.

28. (Previously presented) The process of claim 1, wherein the blank is

rod-shaped.

29. (Previously presented) The process of claim 28, wherein the rod-

shaped blank is circular in cross-section.

30. (Previously presented) The process of claim 2, wherein the blank is

rod-shaped.

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31. (Previously presented) The process of claim 30, wherein the rodshaped blank is circular in cross-section.

32. (Previously Presented) The process of claim 7, further comprising, after the shaping step:

removing the shaped blank from the mold.